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| FORM PTO 1390<br>(REV 10-2003)   |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTORNEY'S DOCKET NUMBER<br>HYDR-P01-005                            |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371 |  |   | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/509472</b> |
| INTERNATIONAL APPLICATION NO.<br>US03/09391  | INTERNATIONAL FILING DATE<br>27 March 2003 | PRIORITY DATE CLAIMED<br>27 March 2002                  |   |
| TITLE OF INVENTION ELASTIN PREVENTS OCCLUSION OF BODY VESSELS BY VASCULAR SMOOTH MUSCLE CELLS                              |  |   |   |
| APPLICANT(S) FOR DO/EO/US Li et al.  |  |   |   |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing 35 U.S.C. 371.
- ☐ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.
- ☒ The US has been elected (Article 31).
- ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - ☐ is attached hereto (required only if not communicated by the International Bureau).
  - ☒ has been communicated by the International Bureau.
  - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
- ☐ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
  - ☐ is attached hereto.
  - ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
- ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - ☐ are attached hereto (required only if not communicated by the International Bureau).
  - ☐ have been communicated by the International Bureau.
  - ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - ☒ have not been made and will not be made.
- ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
- ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
- ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 11 to 20 below concern document(s) or information included:

- ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- ☒ A preliminary amendment.
- ☒ An Application Data Sheet under 37 CFR 1.76.
- ☐ A substitute specification.
- ☐ A power of attorney and/or change of address letter.
- ☒ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
- ☒ A second copy of the published international application under 35 U.S.C. 154(d)(4).
- ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- ☒ Other items or information: RETURN POSTCARD FROM DO/EO/US confirming receipt of 371 national phase; Certificate of Express Mailing

| U.S. APPLICATION NO. (if known, see 37 CFR 1.52)<br><div style="font-size: 24pt; font-weight: bold; text-align: center;">10/509472</div>  | INTERNATIONAL APPLICATION NO.<br><div style="text-align: center;">US03/09391</div> | ATTORNEY'S DOCKET NUMBER<br><div style="text-align: center;">HYDR-P01-005</div>                                   |  |                               |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
|---|--|---|--|-------------------------------|------|--|--------------|---------|----|---------|-----------|--------------------|--------|---|---------|-----------|---|--|--|--|----|--------------------------------------|--|--|--|-------------|---|--|--|--|-----------|-------------------|--|--|--|-----------|--|--|--|--|----|-----------------------------|--|--|--|-----------|---|--|--|--|------|------------------------------|--|--|--|-----------|--|--|--|--|-------------------------------|--|--|--|--|-----------------|
| 21. <input checked="" type="checkbox"/> The following fees are submitted:<br><b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) – (5)):</b><br><input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO . . . . . \$1080.00<br><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO . . . . . \$920.00<br><input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO . . . . . \$770.00<br><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) . . . . . \$730.00<br><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) . . . . . \$100.00<br><div style="text-align: right; margin-top: 10px;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></div>   |  | <b>CALCULATIONS</b> PTO USE ONLY<br><div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div> |  |                               |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).<br><table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 20%;">RATE</th> <th style="width: 20%;"></th> </tr> <tr> <td>Total claims</td> <td>43-20 =</td> <td>23</td> <td>x 18.00</td> <td>\$ 414.00</td> </tr> <tr> <td>Independent claims</td> <td>11-3 =</td> <td>8</td> <td>x 86.00</td> <td>\$ 688.00</td> </tr> <tr> <td colspan="4">MULTIPLE DEPENDENT CLAIM(s) (if applicable)</td> <td>\$</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td>\$ 1,872.00</td> </tr> <tr> <td colspan="4"> <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.         </td> <td>\$ 936.00</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>SUBTOTAL =</b></td> <td>\$ 936.00</td> </tr> <tr> <td colspan="4">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).</td> <td>\$</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL NATIONAL FEE =</b></td> <td>\$ 936.00</td> </tr> <tr> <td colspan="4">Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> <td>\$ +</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL FEES ENCLOSED =</b></td> <td>\$ 936.00</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;"><b>Amount to be refunded:</b></td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;"><b>charged:</b></td> </tr> </table> |  | CLAIMS  | NUMBER FILED   | NUMBER EXTRA                  | RATE |  | Total claims | 43-20 = | 23 | x 18.00 | \$ 414.00 | Independent claims | 11-3 = | 8 | x 86.00 | \$ 688.00 | MULTIPLE DEPENDENT CLAIM(s) (if applicable) |  |  |  | \$ | <b>TOTAL OF ABOVE CALCULATIONS =</b> |  |  |  | \$ 1,872.00 | <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. |  |  |  | \$ 936.00 | <b>SUBTOTAL =</b> |  |  |  | \$ 936.00 | Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)). |  |  |  | \$ | <b>TOTAL NATIONAL FEE =</b> |  |  |  | \$ 936.00 | Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property |  |  |  | \$ + | <b>TOTAL FEES ENCLOSED =</b> |  |  |  | \$ 936.00 |  |  |  |  | <b>Amount to be refunded:</b> |  |  |  |  | <b>charged:</b> |
| CLAIMS  | NUMBER FILED   | NUMBER EXTRA  | RATE   |                               |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| Total claims  | 43-20 =  | 23  | x 18.00  | \$ 414.00                     |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| Independent claims  | 11-3 =   | 8   | x 86.00  | \$ 688.00                     |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable)   |  |   |  | \$                            |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |  |   |  | \$ 1,872.00                   |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |  |   |  | \$ 936.00                     |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| <b>SUBTOTAL =</b>   |  |   |  | \$ 936.00                     |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
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| <b>TOTAL NATIONAL FEE =</b>   |  |   |  | \$ 936.00                     |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
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| <b>TOTAL FEES ENCLOSED =</b>  |  |   |  | \$ 936.00                     |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
|   |  |   |  | <b>Amount to be refunded:</b> |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
|   |  |   |  | <b>charged:</b>               |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.<br>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. 18-1945 in the amount of \$ 936.00 to cover the above fees. A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-1945. A duplicate copy of this sheet is enclosed.<br>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.   |  |   | <div style="text-align: center; margin-top: 20px;"> <br/>           SIGNATURE: _____<br/>           Melissa S. Rones, Ph.D.<br/>           NAME: _____<br/>           54,408<br/>           REGISTRATION NUMBER         </div> |                               |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.   |  |   |  |                               |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |
| SEND ALL CORRESPONDENCE TO:<br>Matthew P. Vincent<br>ROPES & GRAY LLP<br>One International Place<br>Boston, Massachusetts 02110-2624<br>(617) 951-7739<br>CUSTOMER NUMBER: 28120  |  |   |  |                               |      |  |              |         |    |         |           |                    |        |   |         |           |   |  |  |  |    |                                      |  |  |  |             |   |  |  |  |           |                   |  |  |  |           |  |  |  |  |    |                             |  |  |  |           |   |  |  |  |      |                              |  |  |  |           |  |  |  |  |                               |  |  |  |  |                 |

Application No. (if known): Not Yet Assigned

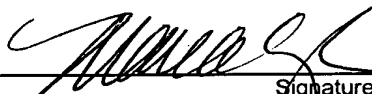
Attorney Docket No.: HYDR-P01-005

**Certificate of Express Mailing Under 37 CFR 1.10**

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV543598531US in an envelope addressed to:

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on 27 September 2004  
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Signature

Maria M. Bjornholm

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Transmittal Letter to the United States Designated-Elected Office (2 pages)  
Certificate of Express Mailing (1 page)  
Application Data Sheet (3 pages)  
Preliminary Amendment (10 pages)  
Statement of Sequence Listing (2 pages)  
Sequence Listing (7 pages) (paper copy & diskettes)  
Second Copy of PCT/US03/09391  
Return receipt postcard